Claims

20

25

recording medium.

- 1. Method for analyzing an abnormal region on an optical recording medium, including the steps of:
- 5 detecting (21) the abnormal region;
 - determining (23, 31) the type of the abnormal region; and
 - measuring (24, 32) the length of the abnormal region, characterized in that the step of determining (23, 31) the type of the abnormal region includes:
- making a speed controlled jump (22) over the abnormal region;
 obtaining information on the type of abnormal region during the speed controlled jump (22).
- 2. Method according to claim 1, wherein the step of determining (23, 31) the type of the abnormal region further includes:
 - differentiating (23) between a first group of types and a second group of types of abnormal region based on the obtained information.
 - 3. Method according to claim 1, wherein the step of obtaining information on the type of abnormal region during the speed controlled jump (22) includes evaluating a data signal (HF) and/or a track crossing signal (TC) obtained from the optical
 - 4. Method according to one of claims 1 to 3, wherein the step of measuring (24, 32) the length of the abnormal region includes one of:
- 30 measuring (244) the time needed for jumping (22) over the abnormal region; and
 - counting (324) a number of pulses emitted by a phase locked loop during jumping (22) over the abnormal region, the phase locked loop replicating a track crossing signal obtained before
- 35 reaching the abnormal region in the jumping step (22).

- 5. Method according to one of claims 1 to 3, further including the steps of:
- jumping back (30) to the start of the abnormal region;
- reading (30) data stored in the abnormal region; and
- 5 evaluating (31) the data for determining the type of abnormal region.
 - 6. Method according to claim 5, wherein the step of evaluating (31) the data for determining the type of abnormal region includes at least one of:
 - evaluating a sync signal included in the data; and

10

20

25

30

35

- evaluating the data frequency in the abnormal region.
- 7. Method according to claim 5 or 6, wherein the step of measuring (24, 32) the length of the abnormal region includes counting the number of wrong syncs in the abnormal region.
 - 8. Method according to one of claims 1 to 7, **further** including the step of storing the position, the length and/or the type of the abnormal region on the optical recording medium.
 - 9. Method according to anyone of claims 1 to 8, wherein the types of abnormal region include at least one of a groove region, a mirror region, a defect region, a wrong bitrate region and a wrong structure region.
 - 10. Device for analyzing an abnormal region on an optical recording medium, **characterized** in that it performs a method according to one of claim 1 to 10.
 - 11. Apparatus for reading from and/or writing to optical recording media, characterized in that it performs a method according to one of claims 1 to 9 or includes a device according to claim 10 for analyzing an abnormal region on an optical recording medium.